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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|------------------------------------|----------------------|---------------------|------------------|
| 10/601,652 | 06/24/2003 | Masatoshi Yokota | 0754-0192P | 1286 |
| | 7590 12/16/200 ART KOLASCH & BI | EXAMINER | | |
| PO BOX 747 | CH VA 22040 0747 | HUNTER, ALVIN A | | |
| FALLS CHURCH, VA 22040-0747 | | | ART UNIT | PAPER NUMBER |
| | | | 3711 | |
| | | | | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 12/16/2008 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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mailroom@bskb.com

| | Application No. | Applicant(s) | |
|--|--|--|--|
| | 10/601,652 | YOKOTA, MASATOSHI | |
| Office Action Summary | Examiner | Art Unit | |
| | ALVIN A. HUNTER | 3711 | |
| The MAILING DATE of this communication ap Period for Reply | pears on the cover sheet with the | correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133). | |
| Status | | | |
| Responsive to communication(s) filed on 25 № This action is FINAL . 2b) This action for allowed closed in accordance with the practice under | s action is non-final. ance except for formal matters, pr | | |
| Disposition of Claims | | | |
| 4) Claim(s) 1,2,4,6,7,9 and 11-13 is/are pending 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4,6,7,9 and 11-13 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o | awn from consideration. | | |
| | | | |
| 9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed as a composition and a composition and a composition to the separatement drawing sheet(s) including the correct and the correct an | cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob | e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d). | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list | nts have been received. Its have been received in Applicat Pority documents have been receiv Nau (PCT Rule 17.2(a)). | ion No ed in this National Stage | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other: | ate | |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 6, 7, 9, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu (USPN 5908358) in view of Iwami (JP 2002-078824).

Regarding claim 1, 2, 4, 6, 7, 9, and 11-13, Wu discloses a thermosetting urethane golf ball cover wherein the thermosetting urethane resin composition comprises an isocyanate group- terminated urethane prepolymer and a polyamine compound covering a core having a Young's modulus, also known as modulus of elasticity or stiffness modulus, from about 5000 to 100000 psi, or 34.5 to 689.5 MP, a (See claim 1 of Wu). In table 1, Wu shows examples of golf balls in which bear the cover of the present invention wherein it is shown that the covers have a hardness of 51 to 58 Shore D. Wu, through the examples, show the cover having a thickness of about 1.3mm (See Table 1) because the diameter of the golf ball is 1.68 inches and the center is 1.50 inches resulting in the cover thickness being ((1.68-1.58)/2)*25.4mm. From the above, a modulus of at least 102 to 116 MPa would satisfy the applicant's criteria, and therefore, would anticipate the above claims. Wu discloses that the types of polyurethane that may be used are of thermoplastic and thermoset type in which

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examples of how those types are made. Wu does not limit the polyurethane to having the types of isocyanates disclosed. Wu also established that alicylic isocyanates, which inherently has color stabilizing characteristics, can also be used to produce thermoset polyurethane (See Column 5, lines 39 through 50). Wu discloses the use of 4'diaminodipheynlmethane but does not disclose the polyamine being 3, 3'-deithyl-5, 5'dimethyl-4,4'-diaminodipheynlmethane. Iwami discloses a golf ball having a cover of a polyurethane composition made of a isocyanate group-terminated urethane prepolymer and a polyamine wherein the isocyanate are 4,4'-dicyclohexylmethane diisocyanate, isophorone diisocyanate, etc., and the polyamine desired is 4'-diaminodipheynlmethane and derivative thereof where 3, 3'-deithyl-5,5'-dimethyl-4,4'-diaminodipheynlmethane is noted as being a derivative thereof (See Paragraphs 0018 to 0026)). One having ordinary skill in the art would have found it obvious to use the above polyamine as taught by Iwami, within the composition of Wu in order to improve thermal resistance. Further, one having ordinary skill in the art would have found it obvious to use the above isocyanates, taught by Iwami, within the composition of Wu in order to improve weatherability, water resistance, and resilience.

Response to Arguments

Contrary to the finding of the Board of Appeals and Interferences (BPAI), the BPAI is in error on the finding of previously pending claims 14-16. Table I shows the golf ball having a diameter of 1.68 inches and the center having a diameter of 1.58 inches. Subtracting the two values would result in a value of 0.10 inch. The cover

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thickness is half the value obtained from subtracting the ball diameter and the center diameter which is 0.05 inches. In order to convert the values to mm, 0.5 inch must be multiplied by 25.4 which would result in 1.27mm or 1.3mm. In view of the above explanation, it is believed by the examiner that the rejection is proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALVIN A. HUNTER whose telephone number is (571)272-4411. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eugene Kim, can be reached on 571-272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Alvin A Hunter/

Examiner, Art Unit 3711

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/Gene Kim/

Supervisory Patent Examiner, Art Unit 3711

/Robert P Olszewski/

Director, Technology Center 3700